ELSEVIER

Thin Solid Films 372 (2000) 300

thin solid films

www.elsevier.com/locate/tsf

Author Index of Volume 372

Adanu, K.G., 220
Ahn, W., 223
Akamatsu, K., 169
Al Jassim, M.M., 212
Alfimov, M.V., 232
Ameziane, E.L., 149
Audier, M., 185

Bagiyono, Y.M., 37
Bai, W., 6
Balzer, F., 78
Banhart, F., 1
Baryshnikova, E.A., 232
Basol, B., 212
Benlahsen, M., 60
Bennouna, A., 149
Berezin, A.A., 70
Bo, L.X., 265
Boakye, F., 220
Boyer, M.I., 54
Britt, J.S., 212
Bunning, T.J., 85

Chahboun, N., 149
Cheary, R.W., 94
Chen, R., 114
Choi, W.Jin., 252
Choy, K.-L., 6
Chu, J.H., 265
Clin, M., 60
Cooper, T.M., 85
Corraze, B., 54
Coutier, C., 185

de With, G., 134
Deki, S., 169
den Toonder, J.M.J., 134
Deng, Z., 114
Dickey, E.C., 37
Dligatch, S., 94
Durose, K., 284

Edwards, P.R., 284

F. Rabolt, J., 223
Fedorova, O.A., 232
Fick, J., 185
Fischer, M., 217
Fuchs, H., 163
Fujii, M., 169
Fukuhara, N., 70

Gabry, B., 118
Galloway, S.A., 284
Gillespie, T., 212
Gong, B., 94
Grant, J.T., 85
Gromov, S.P., 232
Gu, Y.W., 104
Guo, S.L., 265

Ha, KiRyong., 223
Hacke, S., 232
Hamakawa, Y., 181
Hasoon, F., 212
Hayashi, S., 169
Hazel, J., 85
Hillerich, B., 217

Ibrahim, A.A., 144
Inata, M., 169
Inoue, Y., 169

Jett, S.D., 78
Jiang, H., 85
Jung, Y.-B., 270

Kang, D.Heon., 252
Kazemeini, M.H., 70
Khor, K.A., 104
Kim, D.-J., 270
Kim, K.-T., 45
Konuma, M., 1
Kozlowski, F., 217
Kuroyanagi, K., 156

Laaziz, Y., 149
Langlet, M., 185
Lebedev, A.N., 208
Lee, J.-H., 270, 270
Lee, M.-B., 270
Lee, S.-G., 45
Lee, Y.-H., 45, 270
Lexcellent, C., 118
Li, S.F., 25
Lian, G., 37
Lynch, P., 94

Ma, Z.X., 265
Mahmoud, S.A., 144
Mai, Y.W., 257

Malzbender, J., 134
Marshall, C., 212
Matson, R., 212
Matsumoto, M., 239
McBride, W.E., 257
McCredie, G.M., 94
McKenzie, D.R., 257
Meng, X.J., 265
Minemoto, T., 181
Miyazaki, S., 118
Mizutani, N., 156
Möbius, D., 232
Moorthy Babu, S., 1
Morvan, H., 54
Mu, J., 242

Natsume, Y., 30
Naud, C., 60
Negami, T., 181
Nishiwaki, S., 181
Nkum, R.K., 220
No, V.H., 118

Okamoto, H., 242
Outzourhit, A., 149

Peng, X.L., 292

Qian, Y., 50
Qiao, J., 259
Qiu, Y., 259
Quillard, S., 54

Ramasamy, P., 1
Rho, S., 223
Riad, A.S., 144
Rimet, R., 185
Robinson, D.W., 10
Rockett, A., 212
Rogers Jr., J.W., 10
Rubahn, H.-G., 78

Sakata, H., 30
Sato, F., 239
Schäfer, A.H., 163
Schouwink, P., 163
Schreiber, M., 208
Seidel, C., 163
Sembian, A.M., 1

Sergeeva, T.A., 232
Shen, Y.G., 257
Shinozaki, K., 156
Sinnott, S.B., 37
Solina, D.M., 94
Stamate, M.D., 248
Stelzle, M., 223
Stenzel, O., 208
Su, W., 85
Suh, S., 223
Sun, J.L., 265
Swift, P.D., 94
Synn, D., 223

Tachibana, H., 239
Takakura, H., 181
Takenaka, S., 242
Tsai, M.S., 198
Tseng, T.Y., 198
Tsukruk, V.V., 85

Wagner, T., 37
Wakiya, N., 156
Wang, S., 50
Wang, W., 50
Wang, Y.T., 25
Weber, J., 1
Wu, R.H., 25

Xu, D., 25
Xuan, Y., 156
Xue, W., 114

Yamamoto, K., 169
Yang, H., 25
Ye, H.J., 265
Yescheulova, O.V., 232
Yoon, K.Hyun., 252

Zahn, D.R.T., 208
Zaitsev, S.Yu., 232
Zeinert, A., 60
Zeiss, W., 232
Zellama, K., 60
Zhang, Q.C., 257
Zhang, S.M., 25
Zhang, T., 114
Zhao, D.G., 25
Zheng, L.X., 25

PII: S0040-6090(00)01246-3

ELSEVIER

Thin Solid Films 372 (2000) 300

thin solid films

www.elsevier.com/locate/tsf

Author Index of Volume 372

Adanu, K.G., 220
Ahn, W., 223
Akamatsu, K., 169
Al Jassim, M.M., 212
Alfimov, M.V., 232
Ameziane, E.L., 149
Audier, M., 185

Bagiyono, Y.M., 37
Bai, W., 6
Balzer, F., 78
Banhart, F., 1
Baryshnikova, E.A., 232
Basol, B., 212
Benlahsen, M., 60
Bennouna, A., 149
Berezin, A.A., 70
Bo, L.X., 265
Boakye, F., 220
Boyer, M.I., 54
Britt, J.S., 212
Bunning, T.J., 85

Chahboun, N., 149
Cheary, R.W., 94
Chen, R., 114
Choi, W.Jin., 252
Choy, K.-L., 6
Chu, J.H., 265
Clin, M., 60
Cooper, T.M., 85
Corraze, B., 54
Coutier, C., 185

de With, G., 134
Deki, S., 169
den Toonder, J.M.J., 134
Deng, Z., 114
Dickey, E.C., 37
Dligatch, S., 94
Durose, K., 284

Edwards, P.R., 284

F. Rabolt, J., 223
Fedorova, O.A., 232
Fick, J., 185
Fischer, M., 217
Fuchs, H., 163
Fujii, M., 169
Fukuhara, N., 70

Gabry, B., 118
Galloway, S.A., 284
Gillespie, T., 212
Gong, B., 94
Grant, J.T., 85
Gromov, S.P., 232
Gu, Y.W., 104
Guo, S.L., 265

Ha, KiRyong., 223
Hacke, S., 232
Hamakawa, Y., 181
Hasoon, F., 212
Hayashi, S., 169
Hazel, J., 85
Hillerich, B., 217

Ibrahim, A.A., 144
Inata, M., 169
Inoue, Y., 169

Jett, S.D., 78
Jiang, H., 85
Jung, Y.-B., 270

Kang, D.Heon., 252
Kazemeini, M.H., 70
Khor, K.A., 104
Kim, D.-J., 270
Kim, K.-T., 45
Konuma, M., 1
Kozlowski, F., 217
Kuroyanagi, K., 156

Laaziz, Y., 149
Langlet, M., 185
Lebedev, A.N., 208
Lee, J.-H., 270, 270
Lee, M.-B., 270
Lee, S.-G., 45
Lee, Y.-H., 45, 270
Lexcellent, C., 118
Li, S.F., 25
Lian, G., 37
Lynch, P., 94

Ma, Z.X., 265
Mahmoud, S.A., 144
Mai, Y.W., 257

Malzbender, J., 134
Marshall, C., 212
Matson, R., 212
Matsumoto, M., 239
McBride, W.E., 257
McCredie, G.M., 94
McKenzie, D.R., 257
Meng, X.J., 265
Minemoto, T., 181
Miyazaki, S., 118
Mizutani, N., 156
Möbius, D., 232
Moorthy Babu, S., 1
Morvan, H., 54
Mu, J., 242

Natsume, Y., 30
Naud, C., 60
Negami, T., 181
Nishiwaki, S., 181
Nkum, R.K., 220
No, V.H., 118

Okamoto, H., 242
Outzourhit, A., 149

Peng, X.L., 292

Qian, Y., 50
Qiao, J., 259
Qiu, Y., 259
Quillard, S., 54

Ramasamy, P., 1
Rho, S., 223
Riad, A.S., 144
Rimet, R., 185
Robinson, D.W., 10
Rockett, A., 212
Rogers Jr., J.W., 10
Rubahn, H.-G., 78

Sakata, H., 30
Sato, F., 239
Schäfer, A.H., 163
Schouwink, P., 163
Schreiber, M., 208
Seidel, C., 163
Sembian, A.M., 1

Sergeeva, T.A., 232
Shen, Y.G., 257
Shinozaki, K., 156
Sinnott, S.B., 37
Solina, D.M., 94
Stamate, M.D., 248
Stelzle, M., 223
Stenzel, O., 208
Su, W., 85
Suh, S., 223
Sun, J.L., 265
Swift, P.D., 94
Synn, D., 223

Tachibana, H., 239
Takakura, H., 181
Takenaka, S., 242
Tsai, M.S., 198
Tseng, T.Y., 198
Tsukruk, V.V., 85

Wagner, T., 37
Wakiya, N., 156
Wang, S., 50
Wang, W., 50
Wang, Y.T., 25
Weber, J., 1
Wu, R.H., 25

Xu, D., 25
Xuan, Y., 156
Xue, W., 114

Yamamoto, K., 169
Yang, H., 25
Ye, H.J., 265
Yescheulova, O.V., 232
Yoon, K.Hyun., 252

Zahn, D.R.T., 208
Zaitsev, S.Yu., 232
Zeinert, A., 60
Zeiss, W., 232
Zellama, K., 60
Zhang, Q.C., 257
Zhang, S.M., 25
Zhang, T., 114
Zhao, D.G., 25
Zheng, L.X., 25

PII: S0040-6090(00)01246-3

ELSEVIER

Thin Solid Films 372 (2000) 301–305

thin solid films

www.elsevier.com/locate/tsf

Subject Index of Volume 372

153: Fourier transform infrared spectroscopy (FTIR)
Effect of annealing on the structural and electrical properties of d.c. multipolar plasma deposited a-C:H films, 60
15: Amorphous materials
Effect of annealing on the structural and electrical properties of d.c. multipolar plasma deposited a-C:H films, 60
17: Annealing
Effect of annealing on the structural and electrical properties of d.c. multipolar plasma deposited a-C:H films, 60
448: Structural properties
Effect of annealing on the structural and electrical properties of d.c. multipolar plasma deposited a-C:H films, 60
Aluminum alloy
Growth regularity of ceramic coatings formed by microarc oxidation on Al–Cu–Mg alloy, 114
Aluminum nitride
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10
Amorphous materials
Dielectric properties of TiO_2 thin films deposited by a DC magnetron sputtering system, 248
Atomic force microscopy
Non-linear optically active metal clusters in nanoscaled systems including self-assembled organic films, 78
Atomic force microscopy (AFM)
Electrostatic self-assembly of sulfonated C_{60}-porphyrin complexes on chitosan thin films, 85
Atomic layer growth
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10

Cadmium sulfide
Physical properties of thermal coating CdS thin films using a modified evaporation source, 144
Cathodoluminescence
EBIC and luminescence mapping of CdTe/CdS solar cells, 284
CdS
EBIC and luminescence mapping of CdTe/CdS solar cells, 284
CdTe
EBIC and luminescence mapping of CdTe/CdS solar cells, 284
Ceramic coatings
Growth regularity of ceramic coatings formed by microarc oxidation on Al–Cu–Mg alloy, 114
Chalcogens
Na in selenized $Cu(In,Ga)Se_2$ on Na-containing and Na-free glasses: distribution, grain structure, and device performances, 212
Chemical vapor deposition
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10
Chemical vapor deposition-diamond films
Coatings
Determination of the elastic modulus and hardness of sol–gel coatings on glass: influence of indenter geometry, 134
Composite films
Simulation of linear optical losses of absorbing heterogeneous thin solid films, 208
Conductivity
Zinc oxide films prepared by sol-gel spin-coating, 30
Copper
Applicability of ALE TiN films as Cu/Si diffusion barriers, 270
$CuInSe_2$
Na in selenized $Cu(In,Ga)Se_2$ on Na-containing and Na-free glasses: distribution, grain structure, and device performances, 212
Cuprous oxide
Photoelectrochemical properties of copper oxide thin films coated on an *n*-Si substrate, 252

Deposition process
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10
Preparation of oriented poly(vinylidene fluoride) thin films by a cost-effective electrostatic spray-assisted vapour deposition-based method, 6
Preparation of La_2O_3 thin films by pulse ultrasonic spray pyrolysis method, 50
Structural and spectroscopic characterizations of oligoaniline thin films, 54
Dielectric properties
Dielectric properties of TiO_2 thin films deposited by a DC magnetron sputtering system, 248
Dielectrics
Characterization of lead zirconate titanate heterolayered thin films prepared on $Pt/Ti/SiO_2/Si$ substrate by the sol–gel method, 45
Dimension change
Growth regularity of ceramic coatings formed by microarc oxidation on Al–Cu–Mg alloy, 114
Dimethylethylamine alane
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10
Dimethylhydrazine
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10

EBIC
EBIC and luminescence mapping of CdTe/CdS solar cells, 284
Elastic properties
Determination of the elastic modulus and hardness of sol–gel coatings on glass: influence of indenter geometry, 134

PII: S0040-6090(00)01247-5

Electrical properties
Highly oriented $PbZr_{0.3}Ti_{0.7}O_3$ thin film on $LaNiO_3$-coated Si substrate derived from a chemical solution technique, 265
Electrical properties and measurements
Physical properties of thermal coating CdS thin films using a modified evaporation source, 144
Zinc oxide films prepared by sol-gel spin-coating, 30
Hybrid Langmuir–Blodgett films of APT and cyanine with binary output modes, 239
Electrochemistry
Photoelectrochemical properties of copper oxide thin films coated on an *n*-Si substrate, 252
Electromigration
Applicability of ALE TiN films as Cu/Si diffusion barriers, 270
Electron backscattered diffraction
Preferred crystallographic orientation relationships of nickel films deposited on (100) cubic-zirconia substrates, 37
Electron beam evaporation
Investigation of the interfacial structure of ultra-thin platinum films using X-ray reflectivity and X-ray photoelectron spectroscopy, 94
Evaporation
Physical properties of thermal coating CdS thin films using a modified evaporation source, 144

Ferroelectric properties
The effect of oxygen-to-argon ratio on the electrical and reliability characteristics of sputtered $Sr_{0.8}Bi_{2.5}Ta_{1.2}Nb_{0.9}O_{9+x}$ thin films, 198
Field emission
Fluorine substituent effect
Langmuir and Langmuir–Blodgett films of fluorine-containing side chain liquid crystal copolysiloxanes, 242
Functionally graded material
Thermal properties of plasma-sprayed functionally graded thermal barrier coatings, 104

Gold nanoparticles
Single-electron tunneling effects in thin Nylon 11 films containing gold nanoparticles, 169

Hardness
Determination of the elastic modulus and hardness of sol–gel coatings on glass: influence of indenter geometry, 134
Heterogeneous materials
Simulation of linear optical losses of absorbing heterogeneous thin solid films, 208
Heterostructures
Characterization of lead zirconate titanate heterolayered thin films prepared on $Pt/Ti/SiO_2/Si$ substrate by the sol–gel method, 45
Hollow cathode
Formation of thin TiN_xO_y films by using a hollow cathode reactive DC sputtering system, 70

Infrared spectroscopy
Characterization of orientation of perfluorostearic acid Langmuir–Blodgett multilayers by infrared spectroscopic methods, 223
Interfaces
Characterization of lead zirconate titanate heterolayered thin films prepared on $Pt/Ti/SiO_2/Si$ substrate by the sol–gel method, 45
Investigation of the interfacial structure of ultra-thin platinum films using X-ray reflectivity and X-ray photoelectron spectroscopy, 94

Langmuir films
Langmuir and Langmuir–Blodgett films of fluorine-containing side chain liquid crystal copolysiloxanes, 242
Langmuir–Blodgett film
Characterization of orientation of perfluorostearic acid Langmuir–Blodgett multilayers by infrared spectroscopic methods, 223
Langmuir–Blodgett films
Langmuir films of the novel anion-capped amphiphilic benzodithia-15-crown-5 dye, 232
Hybrid Langmuir–Blodgett films of APT and cyanine with binary output modes, 239
Langmuir and Langmuir–Blodgett films of fluorine-containing side chain liquid crystal copolysiloxanes, 242
Lanthanide
Preparation of La_2O_3 thin films by pulse ultrasonic spray pyrolysis method, 50
Lead zirconium titanate (PZT)
An XPS study of the nucleation and growth behavior of an epitaxial $Pb(Zr,Ti)O_3/MgO(100)$ thin film prepared by MOCVD, 156
Liquid crystal copolysiloxanes
Langmuir and Langmuir–Blodgett films of fluorine-containing side chain liquid crystal copolysiloxanes, 242
Liquid phase epitaxy
Influence of cooling rate on the dislocations and related luminescence in LPE SiGe layers grown on Si (100) substrates, 1
Luminescence
Influence of cooling rate on the dislocations and related luminescence in LPE SiGe layers grown on Si (100) substrates, 1
The influence of molecular aggregation on the device properties of organic light emitting diodes, 163
Aerosol–gel preparation of optically active layers in the system $Er/SiO_2–TiO_2$, 185
Long-time stability of photoluminescence in porous silicon, 217

Magnesium
Preparation of $Zn_{1-x}Mg_xO$ films by radio frequency magnetron sputtering, 181
Magnetic moment
Magnetoresistance and spin fluctuation resistivity of α-Mn thin films and their relationship to substrate temperatures, 220
Magnetron sputtering
Structural properties and nitrogen-loss characteristics in sputtered tungsten nitride films, 257
Investigation of the interfacial structure of ultra-thin platinum films using X-ray reflectivity and X-ray photoelectron spectroscopy, 94
Manganese
Magnetoresistance and spin fluctuation resistivity of α-Mn thin films and their relationship to substrate temperatures, 220
Metallization
Applicability of ALE TiN films as Cu/Si diffusion barriers, 270
Microarc oxidation
Growth regularity of ceramic coatings formed by microarc oxidation on Al–Cu–Mg alloy, 114
MOCVD
An XPS study of the nucleation and growth behavior of an epitaxial $Pb(Zr,Ti)O_3/MgO(100)$ thin film prepared by MOCVD, 156
Monolayers
Langmuir films of the novel anion-capped amphiphilic benzodithia-15-crown-5 dye, 232
Multilayers
Investigation of the interfacial structure of ultra-thin platinum films using X-ray reflectivity and X-ray photoelectron spectroscopy, 94

Hybrid Langmuir–Blodgett films of APT and cyanine with binary output modes, 239
N,N′-biphenyl-*N,N′*-bis-(1-naphenyl)-[1,1′-biphenyl]-4,4′-diamine
Photostability and morphological stability of hole transporting materials used in organic electroluminescence, 259
N, N′-biphenyl-*N, N′*-bis-(3-methylphenyl)-[1, 1′-biphenyl]-4, 4′-diamine
Photostability and morphological stability of hole transporting materials used in organic electroluminescence, 259

Nanostructures
Non-linear optically active metal clusters in nanoscaled systems including self-assembled organic films, 78
The influence of molecular aggregation on the device properties of organic light emitting diodes, 163
Single-electron tunneling effects in thin Nylon 11 films containing gold nanoparticles, 169
Near coincident site lattice theory
Preferred crystallographic orientation relationships of nickel films deposited on (100) cubic-zirconia substrates, 37
Nickel
Preferred crystallographic orientation relationships of nickel films deposited on (100) cubic-zirconia substrates, 37
Nitride thin films
Structural properties and nitrogen-loss characteristics in sputtered tungsten nitride films, 257
Nitrogen
Structural properties and nitrogen-loss characteristics in sputtered tungsten nitride films, 257
Nucleation
An XPS study of the nucleation and growth behavior of an epitaxial $Pb(Zr,Ti)O_3/MgO(100)$ thin film prepared by MOCVD, 156

Oligomers
Structural and spectroscopic characterizations of oligoaniline thin films, 54
Optical coatings
Aerosol–gel preparation of optically active layers in the system $Er/SiO_2–TiO_2$, 185
Simulation of linear optical losses of absorbing heterogeneous thin solid films, 208
Optical loss, Metal clusters
Simulation of linear optical losses of absorbing heterogeneous thin solid films, 208
Optical properties
Physical properties of thermal coating CdS thin films using a modified evaporation source, 144
Zinc oxide films prepared by sol-gel spin-coating, 30
Simulation of linear optical losses of absorbing heterogeneous thin solid films, 208
Long-time stability of photoluminescence in porous silicon, 217
Langmuir films of the novel anion-capped amphiphilic benzodithia-15-crown-5 dye, 232
Hybrid Langmuir–Blodgett films of APT and cyanine with binary output modes, 239
Optical spectroscopy
Structural and spectroscopic characterizations of oligoaniline thin films, 54
The influence of molecular aggregation on the device properties of organic light emitting diodes, 163
Optoelectronic devices
The influence of molecular aggregation on the device properties of organic light emitting diodes, 163
Organic electroluminescence
Photostability and morphological stability of hole transporting materials used in organic electroluminescence, 259
Organic substances
Non-linear optically active metal clusters in nanoscaled systems including self-assembled organic films, 78
Single-electron tunneling effects in thin Nylon 11 films containing gold nanoparticles, 169
Orientation
Characterization of orientation of perfluorostearic acid Langmuir–Blodgett multilayers by infrared spectroscopic methods, 223
Highly oriented $PbZr_{0.3}Ti_{0.7}O_3$ thin film on $LaNiO_3$-coated Si substrate derived from a chemical solution technique, 265
Oxidation resistance
Thermal properties of plasma-sprayed functionally graded thermal barrier coatings, 104
Oxides
Preparation of La_2O_3 thin films by pulse ultrasonic spray pyrolysis method, 50

Perfluorostearic acid
Characterization of orientation of perfluorostearic acid Langmuir–Blodgett multilayers by infrared spectroscopic methods, 223
Photostability
Photostability and morphological stability of hole transporting materials used in organic electroluminescence, 259
Photovoltaics
Na in selenized $Cu(In,Ga)Se_2$ on Na-containing and Na-free glasses: distribution, grain structure, and device performances, 212
Plasma processing and deposition
Formation of thin TiN_xO_y films by using a hollow cathode reactive DC sputtering system, 70
Plasma spray
Thermal properties of plasma-sprayed functionally graded thermal barrier coatings, 104
Plasma-etching
Platinum
Investigation of the interfacial structure of ultra-thin platinum films using X-ray reflectivity and X-ray photoelectron spectroscopy, 94
Polymers
Preparation of oriented poly(vinylidene fluoride) thin films by a cost-effective electrostatic spray-assisted vapour deposition-based method, 6
Electrostatic self-assembly of sulfonated C_{60}-porphyrin complexes on chitosan thin films, 85
Pt/PZT/LNO/Si
Highly oriented $PbZr_{0.3}Ti_{0.7}O_3$ thin film on $LaNiO_3$-coated Si substrate derived from a chemical solution technique, 265
Pyrolysis
Preparation of La_2O_3 thin films by pulse ultrasonic spray pyrolysis method, 50
PZT
Characterization of lead zirconate titanate heterolayered thin films prepared on $Pt/Ti/SiO_2/Si$ substrate by the sol–gel method, 45

Raman spectroscopy
Reflectance
Optical characterization of low optical thickness thin films from transmittance and back reflectance measurements, 149
Reliability
The effect of oxygen-to-argon ratio on the electrical and reliability characteristics of sputtered $Sr_{0.8}Bi_{2.5}Ta_{1.2}Nb_{0.9}O_{9+x}$ thin films, 198
Resistivity

Magnetoresistance and spin fluctuation resistivity of α-Mn thin films and their relationship to substrate temperatures, 220

SBT
The effect of oxygen-to-argon ratio on the electrical and reliability characteristics of sputtered $Sr_{0.8}Bi_{2.5}Ta_{1.2}Nb_{0.9}O_{9+x}$ thin films, 198
Scanning electron microscopy
Second harmonic generation
Non-linear optically active metal clusters in nanoscaled systems including self-assembled organic films, 78
Selenides
Na in selenized Cu(In,Ga)Se_2 on Na-containing and Na-free glasses: distribution, grain structure, and device performances, 212
Shape memory alloy
Thermodynamic modeling of the recovery strains of sputter-deposited shape memory alloys Ti–Ni and Ti–Ni–Cu thin films, 118
Si(100)
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10
SiGe alloy
Influence of cooling rate on the dislocations and related luminescence in LPE SiGe layers grown on Si (100) substrates, 1
Silica–titania system
Aerosol–gel preparation of optically active layers in the system $Er/SiO_2–TiO_2$, 185
Silicon
Long-time stability of photoluminescence in porous silicon, 217
Photoelectrochemical properties of copper oxide thin films coated on an *n*-Si substrate, 252
Sodium
Na in selenized Cu(In,Ga)Se_2 on Na-containing and Na-free glasses: distribution, grain structure, and device performances, 212
Sol–gel
Characterization of lead zirconate titanate heterolayered thin films prepared on $Pt/Ti/SiO_2/Si$ substrate by the sol–gel method, 45
Aerosol–gel preparation of optically active layers in the system $Er/SiO_2–TiO_2$, 185
Solar cells
Preparation of $Zn_{1-x}Mg_xO$ films by radio frequency magnetron sputtering, 181
Spin fluctuations
Magnetoresistance and spin fluctuation resistivity of α-Mn thin films and their relationship to substrate temperatures, 220
Sputtering
Formation of thin TiN_xO_y films by using a hollow cathode reactive DC sputtering system, 70
Preparation of $Zn_{1-x}Mg_xO$ films by radio frequency magnetron sputtering, 181
The effect of oxygen-to-argon ratio on the electrical and reliability characteristics of sputtered $Sr_{0.8}Bi_{2.5}Ta_{1.2}Nb_{0.9}O_{9+x}$ thin films, 198
Stress
Determination of the elastic modulus and hardness of sol–gel coatings on glass: influence of indenter geometry, 134
Structural properties
Structural and spectroscopic characterizations of oligoaniline thin films, 54
Surface morphological stability
Photostability and morphological stability of hole transporting materials used in organic electroluminescence, 259
Surface morphology
Langmuir films of the novel anion-capped amphiphilic benzodithia-15-crown-5 dye, 232
Surface structure
Electrostatic self-assembly of sulfonated C_{60}-porphyrin complexes on chitosan thin films, 85

TEM
Influence of cooling rate on the dislocations and related luminescence in LPE SiGe layers grown on Si (100) substrates, 1
Temperature programmed desorption
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10
Thermal barrier coating
Thermal properties of plasma-sprayed functionally graded thermal barrier coatings, 104
Thermal conductivity/diffusivity
Thermal properties of plasma-sprayed functionally graded thermal barrier coatings, 104
Thermal cycling
Thermal properties of plasma-sprayed functionally graded thermal barrier coatings, 104
Thermodynamical modeling
Thermodynamic modeling of the recovery strains of sputter-deposited shape memory alloys Ti–Ni and Ti–Ni–Cu thin films, 118
Thickness
Optical characterization of low optical thickness thin films from transmittance and back reflectance measurements, 149
Thin film
An XPS study of the nucleation and growth behavior of an epitaxial $Pb(Zr,Ti)O_3/MgO(100)$ thin film prepared by MOCVD, 156
Thin film solar cells
EBIC and luminescence mapping of CdTe/CdS solar cells, 284
Thin Films
Na in selenized Cu(In,Ga)Se_2 on Na-containing and Na-free glasses: distribution, grain structure, and device performances, 212
Investigation of the interfacial structure of ultra-thin platinum films using X-ray reflectivity and X-ray photoelectron spectroscopy, 94
Thermodynamic modeling of the recovery strains of sputter-deposited shape memory alloys Ti–Ni and Ti–Ni–Cu thin films, 118
Optical characterization of low optical thickness thin films from transmittance and back reflectance measurements, 149
Thin solid films
Simulation of linear optical losses of absorbing heterogeneous thin solid films, 208
Ti–Ni
Thermodynamic modeling of the recovery strains of sputter-deposited shape memory alloys Ti–Ni and Ti–Ni–Cu thin films, 118
Ti–Ni–Cu
Thermodynamic modeling of the recovery strains of sputter-deposited shape memory alloys Ti–Ni and Ti–Ni–Cu thin films, 118
Titanium nitride
Applicability of ALE TiN films as Cu/Si diffusion barriers, 270
Titanium oxide
Dielectric properties of TiO_2 thin films deposited by a DC magnetron sputtering system, 248
Titanium oxinitride
Formation of thin TiN_xO_y films by using a hollow cathode reactive DC sputtering system, 70
Tranmission electron microscopy
Characterization of lead zirconate titanate heterolayered thin films

prepared on $Pt/Ti/SiO_2/Si$ substrate by the sol–gel method, 45
Transmittance
Optical characterization of low optical thickness thin films from transmittance and back reflectance measurements, 149
Tungsten
Structural properties and nitrogen-loss characteristics in sputtered tungsten nitride films, 257

X-Ray photoelectron microscopy (XPS)
An XPS study of the nucleation and growth behavior of an epitaxial $Pb(Zr,Ti)O_3/MgO(100)$ thin film prepared by MOCVD, 156
X-Ray photoelectron spectroscopy
Low temperature atomic layer growth of aluminum nitride on Si(100) using dimethylethylamine alane and 1,1-dimethylhydrazine, 10
Investigation of the interfacial structure of ultra-thin platinum films using X-ray reflectivity and X-ray photoelectron spectroscopy, 94
X-ray photoelectron spectroscopy (XPS)
Electrostatic self-assembly of sulfonated C_{60}-porphyrin complexes on chitosan thin films, 85
X-Ray reflectivity
Investigation of the interfacial structure of ultra-thin platinum films using X-ray reflectivity and X-ray photoelectron spectroscopy, 94
XPS
Photoelectrochemical properties of copper oxide thin films coated on an *n*-Si substrate, 252

Yttria stabilized ZrO_2
Thermal properties of plasma-sprayed functionally graded thermal barrier coatings, 104

Zinc oxide
Zinc oxide films prepared by sol-gel spin-coating, 30
Preparation of $Zn_{1-x}Mg_xO$ films by radio frequency magnetron sputtering, 181
Zirconia
Preferred crystallographic orientation relationships of nickel films deposited on (100) cubic-zirconia substrates, 37